Rack-Mount Kit

Installation Instructions

for the IBM® IntelliStation® Z Pro 6866 Professional Workstation

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Important Information

Avid recommends that you read all the installation instructions thoroughly *before* installing the IBM IntelliStation Z Pro 6866 system into your rack enclosure.

The optional rack-mount kit for the IBM IntelliStation Z Pro 6866 system is provided by IBM. Install the rack-mount kit before making any connections to the system. The IBM IntelliStation Z Pro 6866 system typically requires five rack units.

Although the rack-mount kit includes documentation for installing the kit, this document describes the installation process for just the IBM IntelliStation Z Pro 6866 system. The documentation included with the rack-mount kit includes installation procedures for multiple IBM computers.

You cannot use the front bezel and cable-arm bracket included with the rack-mount kit. The cables used with the Avid systems are not long enough to extend with the cable-arm bracket from the kit.

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Symbols and Conventions

These installation instructions use the following special symbols and conventions:

A note provides important related information, reminders, recommendations, and strong suggestions.

A caution means that a specific action you take could cause harm to your computer or cause you to lose data.

A warning describes an action that could cause you physical harm. Follow the guidelines in the manual or on the unit itself when handling electrical equipment.

Preparing the IBM IntelliStation Z Pro 6866 System

Before you begin, read the safety information in the *User Guide IntelliStation Z Pro Type 6866 Professional Workstation* and the safety information in the rack enclosure documentation. See also the rack-mount instructions in the *User Guide IntelliStation Z Pro Type 6866 Professional Workstation* appendix. Rack-mount instructions are also included with the rack-mount kit. These instructions have been specifically tailored for Avid systems.

The Netfinity Tower-Rack Conversion Kit, IBM part number 10L7006, is the rack-mount kit needed for the IBM IntelliStation Z Pro 6866 system.

Use safe lifting practices when lifting the computer.

To prepare your IBM IntelliStation Z Pro 6866 system for installation into a rack enclosure:

1. Turn off the IBM IntelliStation Z Pro 6866 system.
2. Remove the covers of the IBM IntelliStation Z Pro 6866 system. See "Removing the cover and front bezel" in the *User Guide IntelliStation Z Pro Type 6866 Professional Workstation*.
3. Remove the four feet at the bottom of the IBM IntelliStation Z Pro 6866 system.
4. Install the new covers included with the rack-mount kit using the screws removed earlier (see step 2).

To avoid damage to internal components, use only the short slotted screws included with the Netfinity Tower-Rack Conversion Kit.

5. Install L-bracket IBM part number 20L1419 on the left side of the system and L-bracket IBM part number 20L1418 on the right side of the system, using two short slotted screws per L-bracket included with the rack-mount kit (see Figure 1).

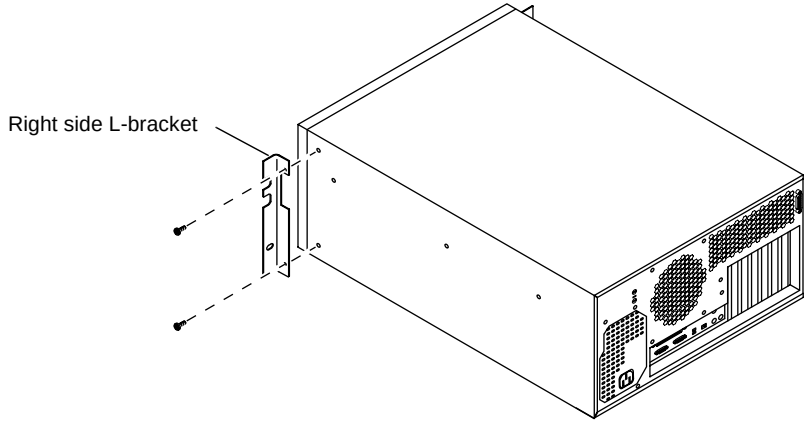

Figure 1 Mounting the L-Bracket

Avid systems cannot use the cable-arm bracket included in the rack-mount kit. Avid cables are not long enough to extend with the cable-arm bracket.

6. Separate the inner slide rail from the outer slide rail as follows:
   a. Pull the inner slide rail until the safety latch locks (see Figure 2).
   b. Press in on the safety latch, and then pull the inner slide rail firmly until it detaches from the outer slide rail (see Figure 2).

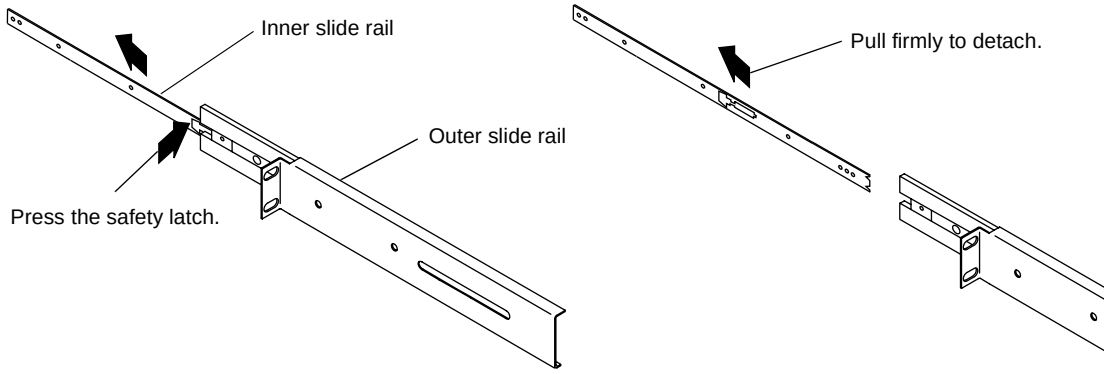

Figure 2 Separating the Slide Rails

7. Align the holes on the inner slide rail with the holes on the side of the IBM IntelliStation Z Pro 6866 system (see Figure 3).
8. Secure the inner slide rail with three short pan-head screws (see Figure 3).
9. Repeat steps 6 through 8 to secure the inner slide rail to the other side of the system.

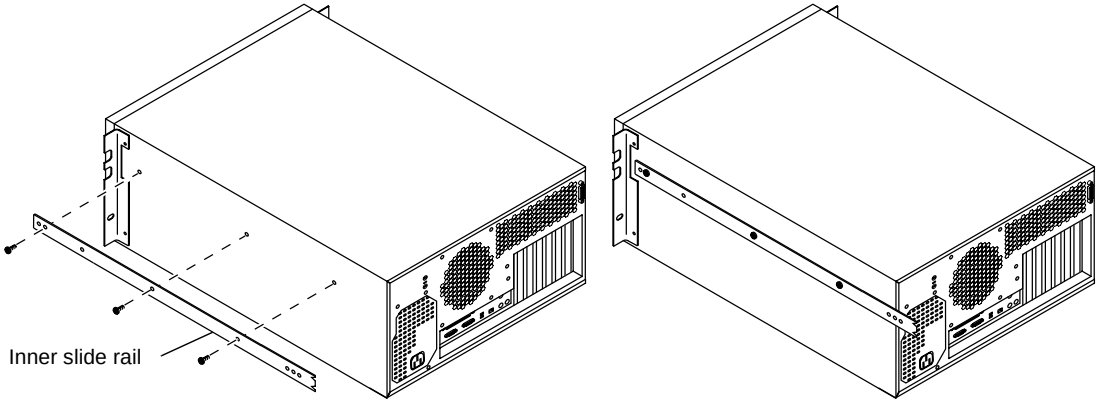

Figure 3 Attaching the Inner Slide Rail

Preparing the Rack Enclosure

In this section you will attach the outer slide rails to the rack enclosure.

To ensure the stability of the rack enclosure, install the rack components in the rack enclosure starting from the bottom.

This procedure requires two people.

To attach the mounting hardware to the rack enclosure:

1. Locate the template (included in the rack-mount kit) and mark the positions of the outer slide rails on the rack enclosure mounting rails:

   a. Position the template on the rack enclosure front mounting rails where you want to install the IBM IntelliStation Z Pro 6866 system.

b. Align the holes in the template with the holes in the rack enclosure front mounting rails. Secure the template in place with tape.

c. Mark the holes where rack nuts are needed on the rack enclosure front mounting rails. Rack nuts are used to secure the outer slide rail brackets.

d. Carefully remove the taped template from the rack enclosure front mounting rails, and align the holes in the template with the holes in the rack enclosure rear mounting rails. Secure the template in place with tape.

e. Mark the holes where rack nuts are needed on the rack enclosure rear mounting rails.

2. Install the rack nuts in the marked positions on the rack enclosure front and rear mounting rails as shown in Figure 4.

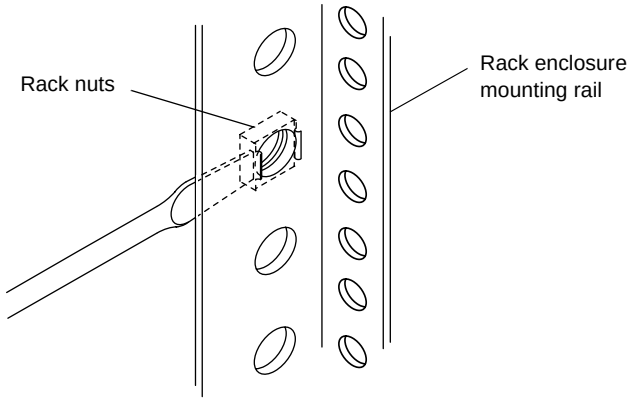

Figure 4 Clipping Rack Nuts onto the Rack Enclosure

The outer slide rails have brackets for adjusting the length. Loosen the screws on the slide brackets to extend or shorten the length of the rails.

3. Attach the outer slide rail to the left side of the rack enclosure.

   a. Position the outer slide rail flush against the outside of the left front mounting rail. Align the slide rail with the rack nuts on the mounting rail (see Figure 5).

   b. From the front of the rack enclosure, insert two long screws through the slide bracket and mounting rail. Secure the slide bracket to the mounting rail.

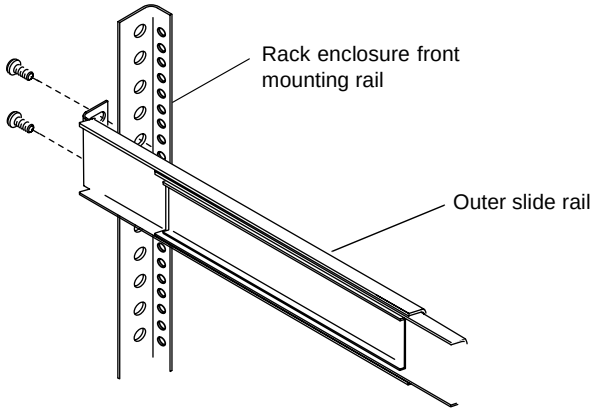

Figure 5 Left Front Slide Bracket

c. Align the holes on the other end of the slide bracket with the rack nuts on the rack enclosure left rear mounting rail (see Figure 6).

d. (Option) If necessary, adjust the length of the slide rails.

e. From the rear of the rack enclosure, insert two long screws through the slide bracket and mounting rail and tighten the screws.

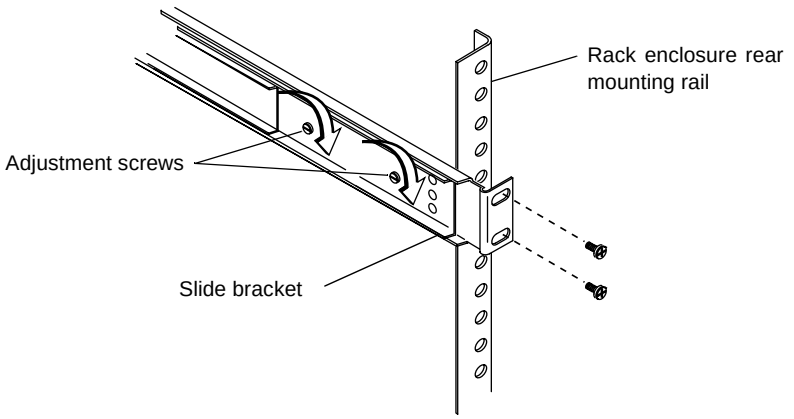

Figure 6 Left Rear Slide Bracket and Adjustment Screws

4. Attach the outer slide rail to the right side of the rack enclosure.

   a. Position the outer slide rail flush against the outside of the right front mounting rail. Align the slide rail with the rack nuts on the mounting rail (see Figure 7).

   b. From the front of the rack enclosure, insert two long screws through the slide bracket and mounting rail. Secure the slide bracket to the mounting rail.

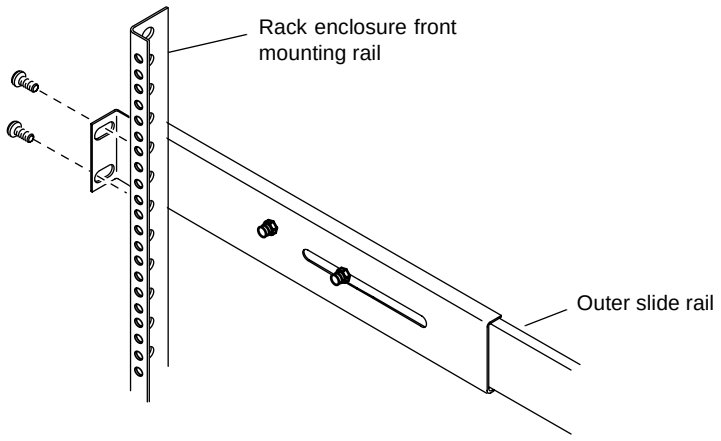

Figure 7 Right Front Slide Bracket

c. Align the holes on the other end of the slide bracket with the rack nuts on the rack enclosure right rear mounting rail (see Figure 8).

d. (Option) If necessary, adjust the length of the slide rails.

e. From the rear of the rack enclosure, insert two long screws through the slide bracket and mounting rail and tighten the screws.

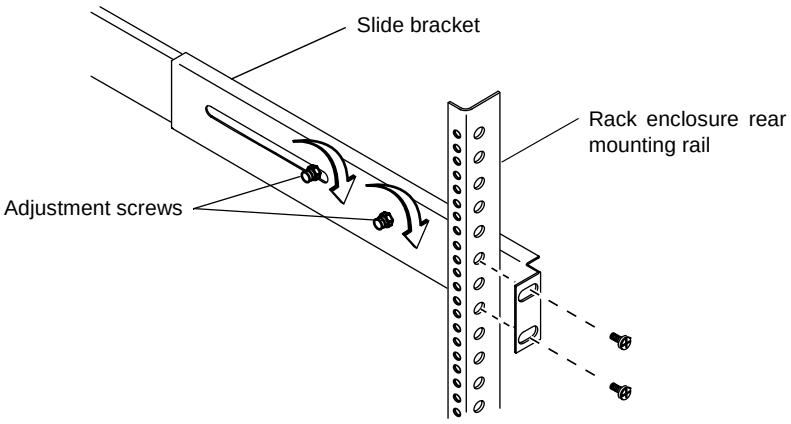

Figure 8 Right Rear Slide Bracket and Adjustment Screws

Installing the IBM IntelliStation Z Pro 6866 System

The final process is to install and secure the IBM IntelliStation Z Pro 6866 system into the rack enclosure.

To install the IBM IntelliStation Z Pro 6866 system into the rack enclosure:

1. If you have not already done so, install a rack nut in each front mounting rail in the marked positions for the L-brackets you attached to the IBM IntelliStation Z Pro 6866 system (see Figure 9).

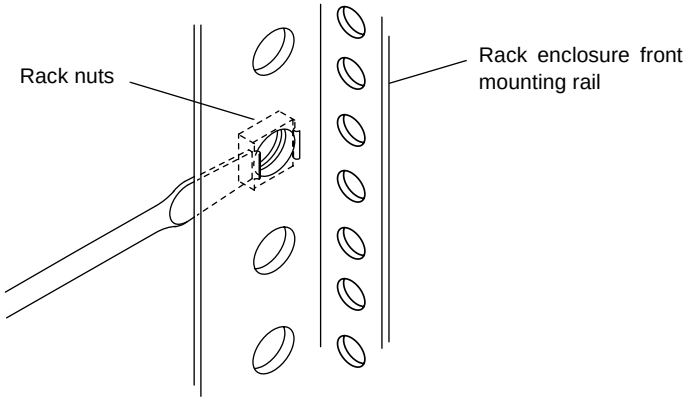

Figure 9 Rack Nuts on the Mounting Rail for the L-Brackets

2. Position the IBM IntelliStation Z Pro 6866 system horizontally (with the 3.5-inch drive bays on the top).
3. Align the inner slide rails attached to the IBM IntelliStation Z Pro 6866 system with the outer slide rails attached to the rack enclosure (see Figure 10). Slide the system into the outer slide rails until the rails click into place.

When the IBM IntelliStation Z Pro 6866 system is fully extended, safety latches on the slide rails lock into place. This prevents the system from being accidentally pulled out too far and dropped. To release the safety latches, press in on them.

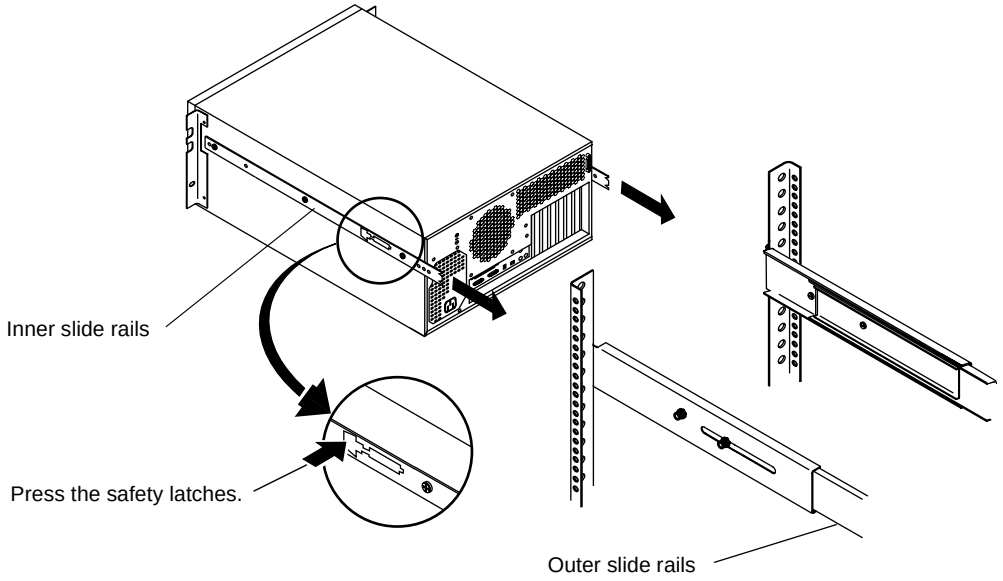

Figure 10 Inserting the IBM IntelliStation Z Pro 6866 System into the Rack Enclosure

4. Press in on the safety latches and slide the IBM IntelliStation Z Pro 6866 system about halfway into the rack enclosure.
5. Connect all cables to the back of the IBM IntelliStation Z Pro 6866 system *before* sliding the system completely into the rack enclosure.

6. Fully secure the IBM IntelliStation Z Pro 6866 system into the rack enclosure by:
   a. Sliding the IBM IntelliStation Z Pro 6866 system completely into the rack enclosure.
   b. Securing the L-brackets on the IBM IntelliStation Z Pro 6866 system to both front mounting rails by inserting a long screw through the L-bracket, mounting rail, and rack nut.

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